

Title (en)

Tracking controller for three-axis mount antenna systems.

Title (de)

Nachführungssteuervorrichtung für dreiachsige Antennentragesysteme.

Title (fr)

Commande de poursuite pour systèmes de monture d'antenne à trois axes.

Publication

EP 0246635 B1 19940302 (EN)

Application

EP 87107347 A 19870520

Priority

- JP 11778386 A 19860521
- JP 27715686 A 19861119

Abstract (en)

[origin: EP0246635A2] In a satellite tracking control system, a receiver derives a pair of elevation (EL) and cross-elevation (XEL) tracking error signals having a quadratic relationship in a coordinate system from a signal received from a polar-orbital satellite. Elevation and cross-elevation motors are respectively controlled in response to the elevation (EL) and cross-elevation (XEL) tracking error signals. An azimuth controller derives an azimuth control signal from angle data representing the angles of the antenna about the azimuth, elevation and cross-elevation axes detected by angle detectors. Preferably, the antenna is rotatable about the elevation (EL) axis in the range between zero and 180 degrees.

IPC 1-7

H01Q 3/08; **G01S 3/42**

IPC 8 full level

G01S 3/42 (2006.01); **H01Q 3/08** (2006.01)

CPC (source: EP US)

G01S 3/42 (2013.01 - EP US); **H01Q 3/08** (2013.01 - EP US)

Cited by

DE4495881T1; FR2671885A1; EP1986016A1; GB2386477A; CN100422759C; GB2253520A; GB2253520B; EP0757404A1; EP0756180A1; FR2737346A1; US5729240A; EP3001506A4; US9912051B2; US6657588B2; WO9213304A1

Designated contracting state (EPC)

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EP 0246635 A2 19871125; **EP 0246635 A3 19900314**; **EP 0246635 B1 19940302**; DE 3789162 D1 19940407; DE 3789162 T2 19940601; US 4994815 A 19910219

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